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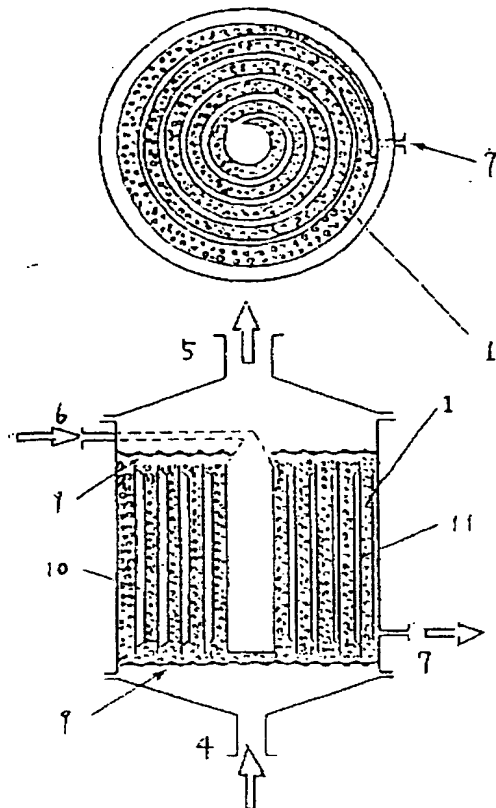
APPLICATION DATE : 14-11-84
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APPLICANT : MITSUBISHI PETROCHEM CO LTD;

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INT.CL. : B01J 8/02

TITLE : CATALYTIC REACTOR



ABSTRACT : PURPOSE: To set freely the size of a heating surface and to facilitate the packing of a catalyst by adjoining a reaction chamber to a heat-transfer medium chamber through a partition wall consisting of a plate material extending in the axial direction, and arranging the partition wall spirally with the axis as a core.

CONSTITUTION: A partition wall between a reaction chamber and a heat-transfer medium chamber is formed to a spiral circle (spiral plate 11), and a catalyst 1 is packed between spiral plates. A heat-transfer medium chamber is formed by the clearance between the adjacent spiral plates. A fluid reactant is supplied from 4, and passed through the catalyst 1 fixed by a catalyst presser 9. A specified chemical reaction is initiated, and a fluid reaction product after the reaction is completed is discharged from 5. A heat-transfer medium is introduced from 6, passed through a flow passage 10, heat-exchanged indirectly with the fluid reaction product through the spiral plate 11, and then discharged from an outlet 7.

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